



CINT2000 Result

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Sun Microsystems
Sun Enterprise 3500/4500

SPECint_rate2000 = 9.69
SPECint_rate_base2000 = 9.06

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Oct-2000 Hardware Avail: Dec-1998 Software Avail: Oct-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	982	6.61	4	958	6.78
175.vpr	4	776	8.37	4	752	8.64
176.gcc	4	548	9.31	4	552	9.25
181.mcf	4	604	13.8	4	573	14.6
186.crafty	4	596	7.79	4	571	8.13
197.parser	4	991	8.43	4	942	8.87
252.eon	4	686	8.79	4	630	9.57
253.perlbnk	4	846	9.87	4	783	10.7
254.gap	4	749	6.81	4	740	6.89
255.vortex	4	733	12.0	4	564	15.6
256.bzip2	4	740	9.41	4	694	10.0
300.twolf	4	1420	9.80	4	1273	10.9

Hardware

CPU: UltraSPARC-II
CPU MHz: 400
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 1-8/1-14
Parallel: None
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 8GB
Disk Subsystem: 6 x 9GB
Other Hardware: --

Software

Operating System: Solaris 8
Compiler: Forte Developer 6 update 1
File System: UFS
System State: multiuser

Notes/Tuning Information

Portability:
176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
252.eon: -library=iostream,no%Cstd
253.perlbnk: -DSPEC_CPU2000_SOLARIS
254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
-DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO

Base: -fast -xcrossfile -xprofile

Peak:

164.gzip: -fast -xalias_level=std -xcrossfile -xprofile
175.vpr: -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -xprofile
176.gcc: -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
181.mcf: -fast -xcrossfile -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xsafe=mem -xprofile
186.crafty: -fast -xalias_level=strong -xcrossfile -xregs=syst
-Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
197.parser: -fast -xalias_level=strong -xcrossfile -xdepend -xregs=syst
-Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile



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Notes/Tuning Information (Continued)

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252.eon:      -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
              -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile
253.perlbnk: -fast -xalias_level=std -xcrossfile -xsafe=mem -xprofile
              -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
254.gap:     -fast -xarch=v8 -xalias_level=std -xcrossfile -Wc,-Qiselect-funcalign=32 -xprofile
255.vortex:  -fast -xsafe=mem -xcrossfile -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
              -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0
              -xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
256.bzip2:   -fast -xalias_level=strong -xarch=v8 -W2,-Abopt -xcrossfile
              -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf:   -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile
ONESTEP=yes for both base and peak

```